

ACCESSION NUMBER: 2005:1099017 CAPLUS
 DOCUMENT NUMBER: 143:397410
 ENTRY DATE: Entered STN: 13 Oct 2005
 TITLE: Composite-type mixed electric conductors and their manufacture
 INVENTOR(S): Saito, Tomoyuki; Takamura, Hitoshi; Okada, Masuo
 PATENT ASSIGNEE(S): TDK Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 INT. PATENT CLASSIF.:
 MAIN: C04B035-50
 SECONDARY: H01M004-86
 CLASSIFICATION: 76-2 (Electric Phenomena)
 Section cross-reference(s): 57
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005281086	A	20051013	JP 2004-99451	20040330
PRIORITY APPLN. INFO.:			JP 2004-99451	20040330
PATENT CLASSIFICATION CODES:				
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES		
JP 2005281086	ICM	C04B035-50		
	ICS	H01M004-86		
	IPCI	C04B0035-50 [ICM,7]; H01M0004-86 [ICS,7]		
	IPCR	C04B0035-50 [I,A]; C04B0035-50 [I,C*]; H01M0004-86 [N,A]; H01M0004-86 [N,C*]		
	FTERM	5H018/AA06; 5H018/BB01; 5H018/BB12; 5H018/EE13; 5H018/HH00		

ABSTRACT:

The title conductors contain a Gd-doped cerium oxide O ion conductor phase having formula of $Ce_{1-x}GdxO_2-x/2$ ($0 < x < 0.5$), and a spinel type Fe composite oxide electron conductor phase having formula of $MFe_2O_4-\delta$ (M is Mn, Co, and/or Ni, Y < 2). The conductors are manufactured by mixing the raw materials, molding, and firing.

SUPPL. TERM: composite mixed elec conductor manuf
 INDEX TERM: Composites
 Electric conductors
 (composite-type mixed elec. conductors and their manufacture)
 INDEX TERM: 12052-28-7, Cobalt iron oxide (CoFe2O4) 117655-32-0
 , Cerium gadolinium oxide (Ce0.8Gd0.2O1.9)
 ROLE: TEM (Technical or engineered material use); USES
 (Uses)
 (mixed elec. conductors containing; composite-type mixed elec. conductors and their manufacture)

